"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

L 40981-65 EWT(1)/EWG(v)/EEC(t) Po-4/Pe-5/Pae-2 GW

ACCESSION NR: AR5009008 S/0269/65/000/002/0014/0014

26
B

SOURCE: Ref. zh. Astronomiya. Otd. vyp., Abs. 2.51.137

AUTHOR: Shakirov, K. S.

TITLE: Determination of the constants of physical libration and coordinates of the crater Moesting A in relation to the center of the lunar mass

CITED SOURCE: Izv. Astron. Engel'gardtovsk. observ. Kazansk. un-ta, no. 34, 1963, 39-59

TOPIC TAGS: moon, lunar physical libration, lunar crater, Moesting A, lunar mass, meridian observation, lunar figure, lunar limb

TRANSLATION: The classical method for determining the parameters of lunar physical libration requires measurements of the distances from the crater Moesting A to points on the limb. Therefore an unreliable knowledge of the general figure of the moon leads to large systematic errors. The author has proposed a method for determination of these parameters by a tie-in between the crater and stars by means of meridian observations: the results obtained in this way are free of errors due to an inexact knowledge of the profile of the lunar limb. The author

Card 1/2

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L 40981-65
ACCESSION NR: AR5009008

gives the results of analysis of 89 meridian observations of the crater Moesting A at Greenwich from 1952 to 1954. The article includes a detailed description of the method of determining the sought-for unknowns, among which the most important is the parameter f of the figure of the moon. This parameter was obtained by the Sh. T. Khabibullin method, involving the use of a harmonic with an annual period in the expression for physical libration in longitude. The value 0.71 was obtained for f; the results of the analysis also made it possible to estimate the position of the lunar center of mass relative to the center of the figure (by 0".4 toward the north, by 0".3 toward the east and by 3.3 km closer to the observer). Bibliography of 16 items. Kh. Potter.

SUB CODE: AA ENCL: 00

Card 2/2

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

SHAKIROV, K.S.

Observations of lunar occultations of stars at the Engel'gardt Astronomical Observatory in Kazan. Biul.Inst.teor.astron. 9 no.8: 579 '64. (MIRA 17:12)

1. Astronomicheskaya observatoriya imeni Engel'gardta, Kazan.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

L 47314-66 EWT(1) GW

ACC NR: AR6028395 SOURCE CODE: UR/0269/66/000/005/0014/0014

AUTHOR: Shakirov, K. S.

9
B

TITLE: Determination of the constants of physical libration of the moon from plotting the crater to the stars with a correction allowance for the orbit inclination

SOURCE: Ref. zh. Astronomiya, Abs. 5.51.113

REF SOURCE: Uch. zap. Kazansk. un-t, v. 125, no. 7, 1965, 89-92

TOPIC TAGS: Lunar libration, physical libration, Yarkovkin model, libration effect, libration constant

ABSTRACT: A study has been made of the effect of disk asymmetry (first Yarkovkin model) on the accuracy of determining the constants of revolution of the moon. When determining the constants of physical libration through the the method of plotting the crater to the stars (see RZH Astr. 1963, 7.51.96), corrections were introduced in the free terms of the arbitrary equations for δ

Card 1/2 UDC: 523.33

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

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ACC NR: AM0028395

... term of $\Delta\delta' = G\Delta i$, which correspond to the discrete values of ..., the inclination of the lunar orbit to the ecliptic, caused by the libra- ... effect in the lunar radius: $\Delta i = -0''.6, -0''.5, \ldots +0''.3$. According to ... vations, the minimum value of the sum of the squares of the remaining ... residuals, after allowance for the correction $\Delta\delta'$, corresponds to $\Delta i = -0''.12$. The results of the solution obtained by this value (Δi) differ little from the ... elements of revolution, which correspond to $\Delta i = 0$. The constant f is ... explicitly independent of the correction allowances $\Delta\delta'$. This is explained by ... fact that the wave period $a_3 \sin i'$ is not commensurate with the anomalistic ... month. The difference between the obtained value $\Delta i = -0''.12$ from other evalua- ... and an analysis of the results of processing the heliometric series with and ... allowance for the asymmetry of the lunar disk suggested the presence of ... symmetry in the apparent lunar disk. The accuracy of determining the ... constants of physical libration in the case of the second Yarkovkin model is ... than the first one: however, it remains lower than the accuracy of the ... for a spherical model. It is assumed that the elliptical model is the best ... to the actual shape of the Moon. It is concluded that an explana- ... of the libration effect in the radius should not be sought in the asymmetry of ... apparent lunar disk. Orig. art. has: 13 reference items. [Translation of ... [FM]

SUB CODE: 03/

Card 2/2

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

[illegible], M. I.

Sharafov, M. I.

"The principles and selection of a system of operating stratified cotton drivers." Published by the Acad Sci Uzbek SSR. Acad Sci Uzbek SSR. Power Engineering Inst. Tashkent, 1954. (Dissertation for the Degree of Candidate in Technical Sciences).

Knizhnaya letopis'
No. [illegible], 1955. Moskva.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

SHAKIROV, K.SH.

Evaluation and selection of the method of drying raw cotton.
Izv. AN Uz. SSR. Ser. tekh. nauk no. 2:53-57 '57. (MIRA 11:7)
(Cotton--Drying)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

FAZYLOV, Kh.F., akademik; SHAKIROV, K.Sh.

Selecting the characteristics of layer-type cotton dryers.
Izv. AN Uz. SSR. Ser. tekh.nauk no.4:47-57 '57. (MIRA 11:7)

1.AN UzSSR (for Fazylov)
(Cotton--Drying)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

SHAKIROV, K.Sh.; YESIPOV, I.I.

Raw cotton temperature in the layer-drying process. Izv. AN Uz. SSR. Ser. tekh. nauk no.4:49-53 '59. (MIRA 13:1)

1. Institut energetiki i avtomatiki AN UzSSR.
(Cotton--Drying)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

VINOKUROV, M.A.; MIRONOV, N.A.; SHAKIROV, K.Sh..

Influence of different forest types on the composition of soil humus. Nauch. dokl. vys. shkoly; biol. nauki no.1:184-187 '60.
(MIRA 13:2)

1.Rekomendovana kafedroy pochvovedeniya Kazanskogo gosudarstvennogo universiteta im. V.I. Ul'yanova-Lenina.
(Forest influences) (Humus)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

SHAKIROV, K.Sh.

Equilibrium moisture content of raw cotton. Izv.AN Uz. SSR.Ser.tekh.nauk. no.3:15-20 '60. (MIRA 13:7)

1. Institut energetiki i avtomatiki AN UzSSR.
(Cotton)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

SHAKIROV, K.S.

Determination of the constants of physical libration and the coordinates of the crater Mösting A relative to the center of the moon's mass. Izv. AOE no.34:39-46 '63. (MIRA 18:4)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

SHAKIROV, K.Sh.

New vortex reverse burner for kilns in the building and ceramics industry. Gaz. delo no.10:32-34 '64. (MIRA 18:1)

1. Institut ispol'zovaniya topliva Gosudarstvennogo komiteta neftepererabatyvayushchey i neftekhimicheskoy promyshlennosti.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

L 06153-67 EWT(1) GW

ACC NR: AR6025333 SOURCE CODE: UR/0269/66/000/004/0008/0008

AUTHOR: Shakirov, K. S.

TITLE: Simultaneous determination of the constants of physical libration and of the longitude corrections of the Moon

SOURCE: Ref. zh. Astronomiya, Abs. 4.51.78

REF SOURCE: Sb. Itog. nauchn. konferentsiya Kazansk. un-ta za 1963 g. [illegible]kts.: para- magnitn. rezonansa, spektroskopii i fiz. polimerov, radiofiz., astron., [illegible]on. Kazan', 1964, 100

TOPIC TAGS: astronomy, moon, moon astrometrics, moon libration constant, moon longitude correction, CELESTIAL BODY MOTION

ABSTRACT: Computation results of the rotational constants and longitude corrections of the Moon are given, based on the Sh. T. Khabibulin method, applied to the results of Greenwich meridional observations of the Mesting A crater relative to stars, during 1950-1954. The longitude correction pertains to the old system of lunar ephemeris, published in astronomical yearbooks until 1959. The magnitude of the physical libration parameter obtained by the author, f = .66 +/-.09, is somewhat smaller than the generally accepted one. [Translation of abstract].

SUB CODE: 03

UDC: 523.33

Card 1/1

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

L 06152-67 EWT(1) GW

ACC NR: AR6025332 SOURCE CODE: UR/0269/66/000/004/0008/0008

AUTHOR: Shakirov, K. S.

TITLE: Mutual disposition of the centers of mass and shape of the Moon

SOURCE: Ref. zh. Astronomiya, Abs. 4.51.77

REF SOURCE: Tr. 16-y Astrometr. konferentsii SSSR, 1963. M.-L., Nauka, 1965, 113-114

TOPIC TAGS: astronomy, moon, moon astrometrics, moon mass center, moon shape center, ASTROMETRY

ABSTRACT: Given are the results of lunar mass center determinations relative to the lunar shape center, from an evaluation of 89 Greenwich meridian observations in 1952-1954. Corrections of the rectangular coordinates of the Mesting crater A have been obtained, relative to the accepted ones, related to the projection of the mass center in the system of "Improved Lunar Ephemeris", $\Delta\xi$ = + 1.8" +/- .8"; $\Delta\eta$ = -.3" +/- .1"; $\Delta\zeta$ =-.4" +/- .1" . From the foregoing, it is concluded that the lunar mass center is shifted .4" Northward, .3" Eastward and 3.3 km toward the observer, relative to the center of the accepted shape of the Moon (for a detailed review of this work, see Ref. zh. Astr., 1965, 2.51.137, Ref.). [Translation of abstract].

SUB CODE: 03

UDC: 523.33

Card 1/1 mlc

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

SHAKIROV, Mansur Akmelovich, inzh.

Nonuniformity of a magnetic field in the air gap of an asynchronous machine. Izv. vys. ucheb. zav.; elektromekh. 6 no.10:1151-1156 '63. (MIRA 17:1)

1. Kafedra elektricheskikh mashin Leningradskogo politekhnicheskogo instituta.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

L 36491-65 EPA(s)-2/EWT(1)

ACCESSION NR: AT5004643 S/2563/64/000/241/0106/0113

9
8
8+1

AUTHOR: Shakirov, M. A.

TITLE: Low-speed synchronous micromotor with a harmonic rotor

SOURCE: Leningrad. Politekhnicheskiy institut. Trudy, no. 241, 1964. Elektromashinostroyeniye (Electrical machinery manufacture), 106-113

TOPIC TAGS: micromotor, harmonic rotor motor

ABSTRACT: The development of a new slow-speed synchronous micromotor with an active rotor responding to supply-frequency harmonics is reported. The design follows the "taimer" invented by British engineers H. S. Lewis and F. McGuirk a few years ago. Although the rotor carries 1 or 2 windings, its number of poles can reach 100 (table 2) with a corresponding reduction of motor rpm. Four models were built and tested with these stator-winding numbers of slots per pole per phase: 6/11 and 3/5 (two-phase), 4/7 and 2/5 (three-phase). Three of

Card 1/2

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

L 36491-65

ACCESSION NR: AT5004643

them have these rpms: 428.6, 300, and 272.7. It is found that: (1) The synchronous torque is proportional to the excitation current and stator voltage; (2) Variation of the inductive reactance of the stator winding depending on the rotor position is only 10—15%; (3) Only the principal rotor flux need be considered; (4) The motor magnetic system is not saturated; iron loss constitutes only 8% of the total loss; (5) The tested models could be started only by a double 50-cps supply voltage; suggestions for improving the starting conditions are offered. Orig. art. has: 6 figures, 10 formulas, and 2 tables.

ASSOCIATION: Leningradskiy politekhnicheskiy institut im. M. I. Kalinina (Leningrad Polytechnic Institute)

SUBMITTED: 00 ENCL: 00 SUB CODE: EE

NO REF SOV: 004 OTHER: 001

Card 2/2

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

L 23218-66 EWT(1)

ACC NR: AP6013586 SOURCE CODE: UR/0144/65/000/002/0132/0139

AUTHOR: Shakirov, Mansur Akmelovich (Assistant)

ORG: Department of Theoretical Principles of Electrotechnics, Leningrad Polytechnic Institute (Kafedra teoreticheskikh osnov elektrotekhniki Leningradskogo politekhnicheskogo instituta)

TITLE: Angular characteristics and circular diagrams of synchronous micromotors

SOURCE: Izvestiya vysshikh uchebnykh zavedeniy. Elektromekhanika, no. 2, 1965, 132-139

TOPIC TAGS: electric motor, magnetic circuit, miniature electric equipment

ABSTRACT: Due to constructive peculiarities and their small size, the parameters of micromotors differ considerably from the parameters of larger synchronous motors. This article analyses the angular characteristics of synchronous micromotors with active rotors (rotor field by PM or dc winding) and presents analyses of the characteristics under various operating conditions. Since most of the magnetic circuits in micromotors are not saturated, the circular diagrams presented are of value not only in theory, but can also be used for practical design calculation purposes. Although the characteristics of a normal synchronous micromotor are analysed, the same methods of analysis and calculation can be used for micromotors of the most varied sort. Orig. art. has: 6 figures and 9 formulas. [JPRS]

SUB CODE: 09 / SUBM DATE: 01Feb64 / ORIG REF: 004

UDC: 621.313.32

Card 1/1 ULR

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

SHAKIROV, M.K.

Organize well-equipped central repair and maintenance shops. Mashinostroitel' no.6:3 Je '60. (MIRA 13:8)

(Machine tools--Maintenance and repair)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

GOLUB, F.M.; ARIPOV, U.A.; BRITUN, A.I.; SHAKIROV, M.Sh.; SATTAROV, R.K.

Regeneration of injured tissues and the possibility of its course being affected during the action of X rays on the body. Experimental data. Med.zhur. Uzb. no.11:16-21 N '60. (MIRA 14:5)

1. Iz kafedry fakul'tetskoy khirurgii (zav. - prof. F.M.Golub) i kafedry rentgenologii i meditsinskoy radiologii (zav. - dotsent G.S.Kuznetsov) Samarkandskogo gosudarstvennogo meditsinskogo instituta imeni I.P.Pavlova.
(X RAYS--PHYSIOLOGICAL EFFECT) (WOUNDS AND INJURIES)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

SHAKIROV, M. SH., CAND MED SCI, "REGENERATION OF AN INJURED NERVE IN RADIATION SICKNESS. (EXPERIMENTAL AND MORPHOLOGICAL ~~INVESTIGATION~~ study)." TASHKENT, 1961. (MIN OF HEALTH UZSSR. TASHKENT STATE MED INST). (KL-DV, 11-61, 230).

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

SHAKIROV, M.Sh., dotsent

Cancer of the kidneys in children. Med. zhur. Uzb. no.2:71-72 F '60. (MIRA 15:2)

1. Iz kliniki fakul'tetskoy khirurgii (zav. - prof. F.M.Golub) Samarkandskogo gosudarstvennogo meditsinskogo instituta imeni I.P.Pavlova.
(KIDNEYS--CANCER) (CHILDREN--DISEASES)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

DOKUCHAYEVA, N.F., kand. med. nauk; SHAKIROV, M.Sh., kand. med. nauk

Data of X-ray investigations following neurotomy of irradiated animals. Nauch. trudy SamMI 22:49-57 '63. (MIRA 17:9)

1. Iz kafedry fakul'tetskoy khirurgii i kafedry rentgenologii i meditsinskoy radiologii Samarkandskogo meditsinskogo instituta.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

KORTUNOV, A.K.; KORSHUNOV, Ye.S.; KUZNETSOV, P.L.; BARABASH, B.B.; FROLTOV, A.I.; SHAKIROV, M.Z.; ALI-ZADE, M.A.; KHODZHAYEV, A.K.; ALEKSANDROV, A.V., red.

[Gas industry in the U.S.A.] Gazovaia promyshlennost' SShA. Moskva, Nedra, 1964. 339 p. (MIRA 18:9)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

SHAKIROV, NOAK

Work practices of a progressive mine of the Karagandaugol' Combine. Ugol' 37 no.9:17-19 S '62. (MIRA 15:9)

1. Shakhta No.31 Karagandinskogo ugol'nogo kombinata.
(Karaganda Basin--Coal mines and mining)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

S/137/61/000/007/027/072
A060/A101

AUTHORS: Radyukevich, L. V.; Shakirov, N. M.

TITLE: Utilization experience of a five-stand mill

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 7, 1961, 8, abstract 7D53 ("Tr. Konferentsii: Tekhn. progress v tekhnol. prokatn. proiz-va". Sverdlovsk, Metallurgizdat, 1960, 582-589)

TEXT: The following problems are considered: 1) adjustment of stands, 2) distribution of reductions among the stands, 3) choice of speeds and tensions, 4) tension schedule, 5) cooling and lubrication on stands and their effect upon the geometrical shape of the strip and upon the output. As an effective method of decreasing the thickness nonuniformity of the metal, it is proposed to introduce voltage compensation in the circuit of the motor-generator, distributed in the following manner (in %): stand no. 1 - 0, stand no. 2 - 10, stand no. 3 - 50, stands no. 4 and no. 5 - 75. The introduction of compensation reduces the amount of unconditioned metal by 50 ps.

V. Pospekhov

[Abstracter's note: Complete translation]

Card 1/1

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

ANTONOV, Sergey Pavlovich; BOYARSHINOV, Mikhail Ivanovich; KUFRIN, Mikhail Ionovich; PIMENOV, Aleksandr Fedorovich; RADYUKEVICH, Leonid Vladimirovich; SHAKIROV, Nur Mazitovich;

[Cold sheet-steel rolling] Kholodnaia prokatka zhesti. Moskva, Metallurgiia, 1965. 266 p. (MIRA 18:3)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

SHAKIROV, O.

AUTHOR: Alperovich, L.I. and Shakirov, O. 51-5-19/26

TITLE: The Effect of Viscosity on the Luminescence Yield of Dyes with Non-rigid Structure. (O vliyanii vyazkosti na vykhod lyuminestsentsii krasiteley s nezhestkoy strukturoy)

PERIODICAL: Optika i Spektroskopiya, 1957, Vol.2, No.5, pp. 666 - 669 (USSR).

ABSTRACT: Luminescence of dyes with non-rigid structure was studied by several workers (Refs.1-3). It was found that some dyes, which do not fluoresce in any liquid solvent, do fluoresce in solid solutions. P.P. Feofilov [Ref.3] has put forward a hypothesis that absence of fluorescence in low-viscosity media is due to internal rotations of separate parts of the excited molecule. This rotation changes the energy of the electron-excitation into heat. In solid solutions, fluorescence is produced due to damping of the internal rotations of the excited molecule by the solvent. This paper studies the effect of viscosity of true and colloidal solutions on the luminescence yield which is analogous to the effect of viscosity on the polarisation of luminescent solutions studied by Vavilov and Levshin [Ref.7]. The dyes studied were those which produce strong luminescence in solid solutions in the red part of the spectrum. The various dyes possessed different degrees of

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

The Effect of Viscosity on the Luminescence Yield of Dyes with Non-rigid Structure.

rigidity of the structural skeleton. The spectra were excited with 546 mμ wavelength of mercury. The luminescence brightness, which is proportional to the yield, was measured visually, using a red filter. The intrinsic luminescence of the solvent was allowed for. Viscosity was varied by means of adding glucose to glycerin. The results are shown in the figure on p. 667, which gives the dependence of yield on viscosity for: I bromphenol blue, II bromcresol purple, III neutral red, IV safranine, V triphenylmethane dyes. The figure shows that at large viscosities, the yield increases with viscosity, even for safranine and neutral red, which both possess very rigid structures. The effect of viscosity of colloidal solutions on the luminescence yield of dyes was studied by using colloidal solutions of gelatine in water. The viscosities of such gels are much larger than viscosities of glycerin-glucose mixtures. In spite of that very high viscosity, the following dyes: fuchsin, methyl violet, bromphenol blue and bromcresol purple had zero yield in aqueous solutions of gelatines. This is explained by assuming that in such gels, the dye is not adsorbed on gelatine, but is dissolved in the liquid phase of the colloid. When the gelatine films containing these dyes

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

The Effect of Viscosity on the Luminescence Yield of Dyes with Non-rigid Structure. 51-5-19/26

were dried, strong fluorescence was observed. This is probably due to the attachment of the dye molecules to gelatine in drying of the colloid.
There are 1 figure, 1 table and 11 references, of which 8 are Slavic.

ASSOCIATION: Tadzhik State University. (Tadzhikskiy Gosudarstvennyy Universitet)

SUBMITTED: November 1, 1956.

AVAILABLE: Library of Congress

Card 3/3

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

SHAKIROV, O.; PONOMAREV, V.

Outstanding achievements. Sov.shakht. 10 no.7:7-9 Jl '61.
(MIRA 14:8)

1. Glavnyy inzh. shakhty No.31 kombinata Karagandaugol' (for Shakirov). 2. Nachal'nik otdela ugol'noy promyshlennosti TSentral'nogo byuro tekhnicheskoy informatsii Karagandinskogo sovnarkhoza (for Ponomarev).

(Karaganda Basin--Coal mines and mining--Labor productivity)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

RETSEPTOR, Ya. (g.Moskva); SHAKIROV, O.; NOAK, A.; SEREBRYANIKOV, G., ekonomist; KHAIT, M.; FILIPPENKO, A.; SULEYMANOV, A. (Dagestanskaya ASSR); GRIGOR'YEV, A.; DZHURINSKIY, N. (g.Kishinev); MALYUKHA, L. (g.Klin); POLISHCHUK, I. (g.Pervoural'sk, Sverdlovskoy obl.); GRIZODUB, Yu. (G.Frunze); CHIGAREV, A.

Letters to the editors. Sots. trud 6 no. 1:136-141 Ja '61.
(MIRA 14:1)

1. Glavnyy inzh.shakhty No. 31 tresta Kirovugol', g.Karaganda (for Shakirov). 2. Nachal'nik planovogo otdela shakhty No. 31 tresta Kirovugol', g. Karaganda (for Noak). 3. Glavnyy bukhgalter stroitel'nogo upravleniya "Tyazhmashstroy", g.Kramatorsk, Stalinskoy obl. (for Khait). 4. Nachal'nik otdela truda i zarabotnoy platy vol'skogo zavoda "Metallist" (for Filippenko). 5. Nachal'nik otdela truda i zarabotnoy platy leningradskogo zavoda "Kinap" (for Grigor'yev). 6. Pavinskiy l'nozavod Kostromskoy oblasti (for Chigorev).
(Wage payment systems) (Industrial management)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

L 4132-66

ACCESSION NR: AR5015195 UR/0275/65/000/006/V009/V010
534.286-8

SOURCE: Ref. zh. Elektronika i yeye primeneniye. Svodnyy tom, Abs. 6V58 31 B

AUTHOR: Shakirov, O.[55]; Belinskiy, B. A.[55]

TITLE: Low-power pulsed ultrasonic outfit with a maximum-type attenuator

CITED SOURCE: Sb. Primeneniye ul'traakust. k issled. veshchestva. Vyp. 18, M., 1963, 45-56

TOPIC TAGS: ultrasonics

TRANSLATION: Ways to improve the attenuators in pulsed ultrasonic outfits[55] are considered. Attenuators made from active resistors and connected at the receiver input, before the frequency converter, in series with a step-type attenuator, have two disadvantages: (1) difficult matching of the receiver quartz with the input and (2) frequency dependence of the attenuation; these disadvantages can be eliminated if the attenuator is connected in such a way that it serves as a load of the cathode follower, the latter being placed between the frequency converter and the IF

Card 1/2

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ACCESSION NR: AR5015195

amplifier. In this case, the converter will not cause nonlinear distortion at low input voltages. Such attenuators have an error of 0.3—0.5 db. There is also another principle of measurement of the ultrasonic-wave attenuation. A pulse of the same frequency as that of the sounding pulse is applied to the input of the receiver of a standard-signal generator via a small capacitance (2—5 pf); this pulse should be amplitude-calibrated and time-delayed. By making the pulse heights equal, the attenuation may be read from the scale of the attenuator of the standard-signal generator. The accuracy of measurement has been enhanced by a multiple-echo-pulse method. Another method of enhancing the accuracy of measurement of the ultrasonic absorption is based on a higher accuracy of measurement of the sounding signal. A 4—100-Mc outfit is described whose attenuation can be measured with an error of 0.05 db. In this outfit, a method of variable acoustic path (1—40 mm) is used with an acoustic pulse delay and pulse comparison techniques.

SUB CODE: GP ENCL: 00

Card 2/2

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

S..KH.OV, O.S..; PO.O.A.M, V.T.; ZHISLIN, I.N.

Work practices in the Mine No.31 of the Karagandaugol' Combine.
Ugol' 36 no.2:51-56 F '61. (MIRA 14:2)
(Karaganda Basin--Coal mines and mining)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

SHAKIROV, R.; NURIDDINOV, R.N.; YUNUSOV, S.Yu.

Alkaloids of Petilium Fduardi (A.Rgl)Vved. Uzb.khim.zhur. 9 no.1:38-42 '65. (MIRA 18:6)

1. Institut khimii rastitel'nykh veshchestv AN UzSSR.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

, A.; [illegible], S.N.; YUNUSOV, S.Yu.

Alkaloids of the bulbs of Petilium Eduardi. Khim. prirod. soed. no.6:429 '65. (MIRA 19:1)

1. Institut khimii rastitel'nykh veshchestv AN UzSSR. Submitted July 2, 1965.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

BOBORYKIN, Ye.P., red.; SARYCHEV, I.I., red.; FRADKIN, S.D., red.; SHAKIROV, R.A., red.; LISOGOR, A.A., red.; VENTSKEVICH, L.A., red.

[Technological information and propaganda at construction projects in Russia] Tekhnicheskaia informatsiia i propaganda na stroikakh Rossii; sbornik statei. Moskva, TSentr. biuro tekhn. informatsii, 1962. 106 p. (MIRA 16:7)

1. Russia (1917- R.S.F.S.R.) Gosudarstvennyy komitet po delam stroitel'stva.
(Construction industry--Technological innovations)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

KIROV, R.A., inzh.

Defects in the work of elevator constructors. Prom. stroi. 42 no.7:26-27 '65. (MIRA 18:8)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

[illegible], B.Kh.; [illegible], A.G.

Experience of the oil well administration of the Ishimbay Petroleum Trust in the recovery of casing from wells and trenches. Neftepром. delo no.6:19-21 '65.

(MIRA 18:10)

1. Neftepromyslovoye upravleniye "Ishimbayneft'".

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

SHAKIROV, Salikhzyan; FURITS, N.Ya., red.; MIRZOYEVA, V.K., red.

[EVP-1 electronic computing attachment to the T-5MV tabulator] Elektronnaia vychislitel'naia pristavka EVP-1 k tabuliatoru T-5MV. Moskva, Statistika, 1965. 77 p. (MIRA 19:1)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

SHAKIROV, T. A.

SHAKIROV, T. A., Cand Med Sci -- (diss) "~~An~~ Experiment to ~~Find~~ in establishing ~~the Basis of Microclimatic Norms in~~ the Norms of the Microclimate of Operational Blood Rendering Harmless the Air in Them." Kazan', 1957. 10 pp. Kazan' State Med Inst), 200 copies. (KL, 7-58, 113)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

SHAKIROV, T.A., aspirant

Bacteriological pollution of the air in the area of operating sections and its purification by ventilation. Kaz.-med.zhur. 40 no.2:59-62 Mr-Ap '59. (MIRA 12:11)

1. Iz kafedry obshchey gigiyeny (zav. - prof.V.V.Miloslavskiy) Kazanskogo meditsinskogo instituta.
(HOSPITALS--HYGIENE) (AIR--BACTERIOLOGY)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

YUNUSOV, S.Yu., akademik; SHAKIROV, T.T.; PLEKHANOVA, N.V.

Alkaloids from Convolvulus subhirsutus Rgl. and Schmae of the family Convolvulaceae. Dok. AN Uz.SSR no.10:17-20 '58. (MIRA 11:12)

1. Institut khimii rastitel'nykh veshchestv AN UzSSR.2. Chlen-korrespondent AN SSSR i akademik AN UzSSR (for Yunusov).
(Alkaloids) (Bindweed)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

ACC NR: AP7011362 (N) SOURCE CODE: UR/0393/66/000/004/0293/0294

AUTHOR: Aripov, Kh. N.; Shakirov, T. T.; Yuldashev, P. Kh.

ORG: Institute of Chemistry of Vegetable Matter, Academy of Sciences UzSSR (Institut khimii rastitel'nykh reshchestv AN UzSSR)

TITLE: Isolation of vincanine

SOURCE: Khimiya prirodnykh soyedinenly, no. 4, 1966, 293-294

TOPIC TAGS: plant chemistry, acetic acid

SUB CODE: 07,06

ABSTRACT: Vincanine was extracted by a countercurrent method from the roots of Vinca erecta Rgl. et Schmalh with a 1 percent solution of acetic acid. The extract was desorbed with 1.5 percent ammoniacal solution in 85 percent ethyl alcohol. The condensed alcoholic solution was acidified with concentrated hydrochloric acid and evaporated to remove alcohol, while the acid solution was alkalized with excess 30 percent caustic soda, and extracted three times with chloroform. The latter was distilled under vacuum to dryness and, after treatment with acetone, vincanine was isolated and converted into vincanine hydrochloride. [JPRS: 40,351]

Card 1/1

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

YUNUSOV, S.Yu., akademik; PLEKHANOVA, N.V.; SHAKIROV, T.

Investigation of several species of Eremurus. Dokl.AN Uz.SSR no.11:25-27 '58. (MIRA 11:12)

1. Chlen-korrespondent AN SSSR,AN UzSSR (for Yunusov). 2. Institut khimii rastitel'nykh veshchestv AN UzSSR.
(Lilies) (Alkaloids)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

SHAKIROV, T.; SIDYAKIN, G.P.; YUNUSOV, S.Yu., akademik

Alkaloids from seeds of Haplophyllum perforatum. Dokl.AN Uz.SSR no.6:28-30 '59. (MIRA 12:9)

1. Institut khimii rastitel'nykh veshchestv AN UzSSR. 2. AN UzSSR (for Yunusov).
(Alkaloids)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

NABIYEV, M.N., akademik; SHAKIROV, Yu.I.

Precipitation of calcium and magnesium nitrates from nitric acid extractions of Kara-Tau--Phosphorites. Izv. AN Uz. SSR. Ser. khim. nauk no.4:19-23 '57. (MIRA 11:9)

1.AN UzSSR (for Nabiyev).
(Kara-Tau--Phosphorites) (Calcium nitrate) (Magnesium nitrate)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

L 52793-65 EWT(m)/EPF(c)/EWP(j)/T Pc-4/Pr-4 RM

ACCESSION NR: AP5016188 UR/0079/64/034/012/3950/3952 22 21 6

AUTHOR: Imayev, M. G.; Shakirova, A. M.; Shirmanova, Ye. P.; Kas'yanova, Ye. K.

TITLE: Organophosphorus compounds with an active methylene group. I --synthesis of some esters of beta-ketophosphinic acids

SOURCE: Zhurnal obshchey khimii, v. 34, no. 12, 1964, 3950-3952

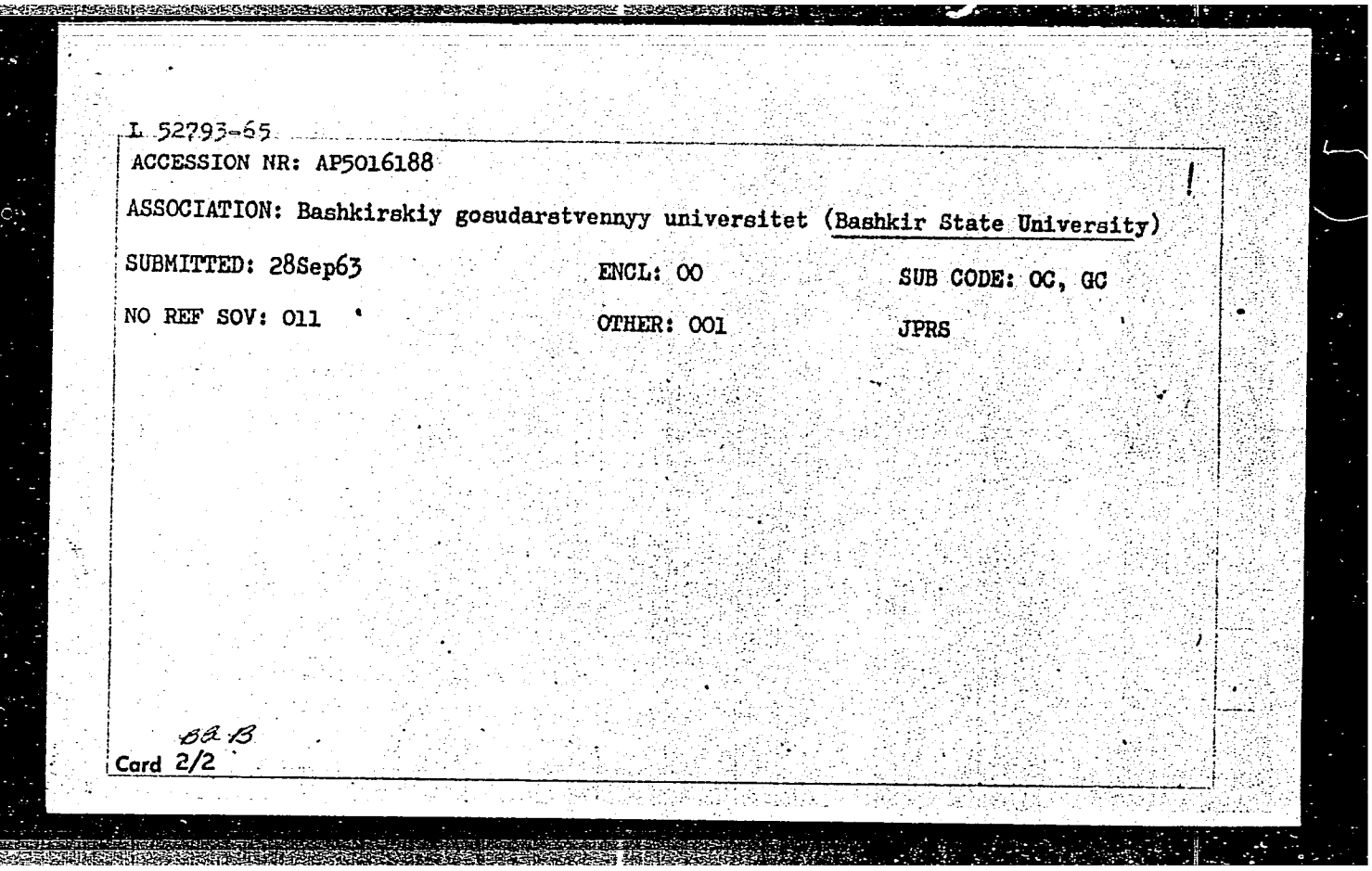
TOPIC TAGS: phosphinic acid, ester, organic synthetic process

Abstract: The reaction of trialkyl phosphite with omega-bromoacetophenone was used to synthesize seven dialkylphosphoneacetophenones, previously undescribed in the literature: dimethyl-, di-n-propyl-, di-n-butyl-, di-n-amyl-, di-n-hexyl-, di-n-heptyl-, and di-n-octylphosphoneacetophenone. All the dialkylphosphoneacetophenones obtained reacted vigorously with sodium, liberating hydrogen, and gave characteristic color reactions with ferric chloride in alcohol solution. The products were viscous yellow liquids with a sharp odor, readily soluble in organic solvents. Data are cited on the physical properties of the new products: percent yields, boiling points, specific gravities, refractive indices, molecular refractions. Orig. art. has 2 tables.

Card 1/2

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7



L 52793-65

ACCESSION NR: AP5016188

ASSOCIATION: Bashkirskiy gosudarstvennyy universitet (Bashkir State University)

SUBMITTED: 28Sep63 ENCL: 00 SUB CODE: OC, GC

NO REF SOV: 011 OTHER: 001 JPRS

Card 2/2

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

IM..SV, M.G. [accused]; [illegible], A.M.

Formation of triphenyl phosphite with ω-bromoacetophenone. Zhur. ob. khim. 35 no.12:2227-2[illegible] D '65.

(MIR [illegible])

1. Nauchno-issledovatel'skiy institut sinteticheskikh kauchukov.
Submitted November 30, 1964.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

L 25603-66 EWT(m)/EWP(j) RM

ACC NR: AP6016705 SOURCE CODE: UR/0079/65/035/012/2223/2225

AUTHOR: Imayev, M. G. (Deceased); Shakirova, A. M.

ORG: Scientific Research Institute of Synthetic Fats (Nauchno-issledovatel'skiy institut sinteticheskikh zhirov)

TITLE: Reaction of triphenylphosphite with omega-bromoacetophenone

SOURCE: Zhurnal obshchey khimii, v. 35, no. 12, 1965, 2223-2225

TOPIC TAGS: organic phosphorus compound, phosphinic acid, brominated organic compound, phosphate

ABSTRACT: The authors previously showed that at 160-220° trialkylphosphites, $(RO)_3P$, where R = C_1-C_8, undergo the Arbuzov rearrangement with omega-bromoacetophenone to form the corresponding alkyl halides and esters of ketophosphinic acids. The purpose of this article was to describe the study of the interaction of triphenylphosphite with omega-bromoacetophenone. It is shown that triphenylphosphite reacts with omega-bromoacetophenone in anhydrous benzene, toluene, or xylene or without a solvent at 120-130° to form an addition product which is thermally unstable and very reactive. It reacts readily with compounds having an active hydrogen, with the evolution of heat.

Card 1/2

UDC: 661.718.1

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

L 25603-66

ACC NR: AP6016705

$$\left[(C_6H_5O)_3\overset{+}{P}\text{-O-}\overset{C_6H_5}{\overset{|}{C}}\text{=}CH_2\right]Br^- + ROH \longrightarrow (C_6H_5O)_3PO + C_6H_5COCH_3 + RBr$$

R = H, CH_3, C_2H_5, CH_3CO.

At higher temperatures (120-140° and higher), triphenylphosphate, phenylacetylene, and hydrogen bromide are formed, which are the products of the thermal decomposition of the adduct. A mechanism for the latter reaction is proposed. [JPRS]

SUB CODE: 07 / SUBM DATE: 30Nov64 / ORIG REF: 006 / OTH REF: 007

Card 2/2

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

L 61128-65 EPF(c)/EWP(j)/EWT(m) RM

ACCESSION NR: AP5019431 UR/0020/65/163/003/0656/0658 18 14 B

AUTHOR: Imayev, M. G.[55]; Shakirova, A. M.[53]

TITLE: Interaction between triphenylphosphite and ω-bromoacetophenone

SOURCE: AN SSSR. Doklady, v. 163, no. 3, 1965, 656-658

TOPIC TAGS: triphenylphosphite, ω-bromoacetophenone, adduct

ABSTRACT: Boiling of an equimolar mixture of triphenylphosphite and ω-bromoacetophenone in anhydrous benzene, toluene, or xylene or heating at 120°-130°C without a solvent results in formation of an adduct. The rate of adduct formation is a function of temperature. A maximum of 95% adduct was obtained during a 9 hour heating in toluene of an equimolar mixture of triphenylphosphite and ω-bromoacetophenone at 110°C. Above 120°C, the rate of adduct decomposition is greater than the rate of its formation. The adduct, a crystalline material, decomposes into triphenylphosphate, phenylacetylene[55], and hydrogen bromide. The adduct reacts very energetically with water, alcohols, acetic acid, and other compounds containing an active hydrogen. Overall, the interaction of triphenylphosphite with ω-bromoacetophenone above 120°C is a two-step process. The first step is the adduct formation according to:

$$(C_6H_5O)_3P + BrCH_2COC_6H_5 \rightarrow [(C_6H_5O)_3\overset{+}{P}-O-\underset{\underset{C_6H_5}{|}}{C}=CH_2]\,\overset{-}{Br}$$

Card 1/2

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

ACCESSION NR: AP5019431

and the second step its thermal decomposition according to:

$$[(C_6H_5O)_3\overset{+}{P}-O-\underset{\underset{C_6H_5}{|}}{C}=CH_2]\,\overset{-}{Br} \rightarrow HBr + C_6H_5-C\equiv CH + (C_6H_5O)_3P(O).$$

Orig. art. has: 3 formulas.

55

ASSOCIATION: Bashkirskiy gosudarstvennyy universitet (Bashkir State University); Vsesoyuznyy nauchnoissledovatelskiy i proyektnyy institut sinteticheskikh zhirozameniteley (All-Union Scientific-Research and Development Institute for Synthetic Grease Substitutes) 55

SUBMITTED: 06Jan65 ENCL: 00 SUB CODE: OC, GC

NO REF SOV: 004 OTHER: 004

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

L 06506-67 EWP(j)/EWT(m) RM
ACC NR: AP7000486 SOURCE CODE: UR/0079/66/036/006/1142/1143

AUTHOR: Imayev, M. G.; Shakirova, A. M.; Yuferova, M. Kh. 27 B

ORG: Bashkir State University (Bashkirskiy gosudarstvennyy universitet); All-Union Scientific Research Institute of Synthetic Fats (Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskikh zhirov)

TITLE: Organophosphorus compounds with an active methylene group. II. Synthesis of certain alkylphenylphosphoneacetophenones

SOURCE: Zhurnal obshchey khimii, v. 36, no. 6, 1966, 1142-1143

TOPIC TAGS: organic synthetic process, organic phosphorus compound

ABSTRACT: New Mixed aliphatic-aromatic di-n-propyl- and dibutylphenyl phosphites were synthesized. Their reaction with omega-bromoacetophenone proceeds according to the Arbuzov rearrangement to form n-propyl- and n-butylphenylphosphoneacetophenones. The structures of the reaction products were confirmed by infrared spectra and by hydrolysis to acetophenonephosphinic acid. They react slowly with sodium, liberating hydrogen, and do not color ferricchloride in alcohol solution. Orig. art. has: 1 figure. [JPRS: 37,023]

SUB CODE: 07 / SUBM DATE: 06May65 / ORIG REF: 006 / OTH REF: 001

Card 1/1 UDC: 547.21'118

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

ACC NR: AP6025986 SOURCE CODE: UR/0079/66/036/00 /1230/1232

AUTHOR: Imayev, M. G. (Deceased); Shakirova, A. M.; Galeyeva, R. A.

ORG: Bashkir State University (Bashkirskiy gosudarstvennyy universitet); All-Union Scientific Research Institute of Synthetic Lubricants (Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskikh zhirov)

TITLE: Organophosphorus compounds with an active methylene group. III. Synthesis of some esters of carboxyanilides and phosphonoacetic acid

SOURCE: Zhurnal obshchey khimii, v. 36, no. 7, 1966, 1230-1232

TOPIC TAGS: ~~organo~~ organic phosphorus compound, alkyl phosphoacetate, anilide alkyl phosphonoacetate, acetate

ABSTRACT:

Previously unreported ethyl dialkylphosphonoacetates were obtained by Arbuzov rearrangement of the corresponding trialkyl phosphites and ethyl bromoacetates:

Card 1/3 UDC: 547.26'118

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

$$(RO)_3P + BrCH_2COOC_2H_5 \rightarrow RBr + (RO)_2P(O)CH_2COOC_2H_5.$$

Composition and physical constants of the ethyl dialkylphosphonoacetates are given in the table. Condensation of ethyl dialkylphosphonoacetates with p-aminobenzoic acid at 190—225°C yields the corresponding anilides:

$$(RO)_2P(O)CH_2COOC_2H_5 + H_2NC_6H_4COOH \rightarrow$$
$$\rightarrow C_2H_5OH + (RO)_2P(O)CH_2CONHC_6H_4COOH.$$

Previously unreported p-carboxyanilides of ethyl di-n-pentylphosphonoacetate and ethyl di-n-hexylphosphonoacetate were also obtained.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

ACC NR: AP6025986

Table 1. Ethyl dialkylphosphonoacetates

$(RO)_2P(O)CH_2COOC_2H_5$

R	Yield (in %)	bp (p in mm)	d_4^{20}	n_D^{20}	MR, Found	MR, Calculated	Found % P	Formula	Calculated % P
N-C_6H_{11}	60.60	157—160° (2)	1.0168	1.4383	79.49	79.37	10.25	$C_{14}H_{29}O_5P$	10.10
N-C_8H_{13}	64.40	164—167 (2)	0.9973	1.4401	88.82	88.61	9.20	$C_{16}H_{33}O_5P$	9.23
N-$C_{10}H_{21}$	36.53	mp 83.5—84°	—	—	—	—	8.24	$C_{24}H_{49}O_5P$	6.92

Orig. art. has: 1 table. [W.A. 50; CBE No. 10]

SUB CODE: 07/ SUBM DATE: 24Aug65/ ORIG REF: 002/ OTH REF: 001

Card 3/3

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

SHAKIROVA, M.A., inzh.

Application of the boundary layer theory to the calculation of the secondary breaking of a stream in a case of rapid spreading. Izv. vys. ucheb. zav.; energ. 7 no.12:91-98 D '64.
(MIRA 18:2)

1. Leningradskiy politekhnicheskiy institut imeni M.I. Kalinina. Predstavlena kafedroy inzhenernoy gidrologii.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

SHAKIROVA, G. [Shakirova, H.]

The light of Lugansk. Znan. ta pratsia no.6:2-3 Je '62.
(MIRA 16:7)
(Lugansk Province—Coal mines and mining)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

SOV/5575

PHASE I BOOK EXPLOITATION SOV/5575

Akademiya nauk SSSR. Astronomicheskiy sovet.

Byulleten' stantsiy opticheskogo nablyudeniya iskusstvennykh sputnikov Zemli, no. 6. (Bulletin of the Stations for Optical Observation of Artificial Earth Satellites, No. 6) Moscow, 1959. 23 p. 500 copies printed.

Sponsoring Agency: Astronomicheskiy sovet Akademii nauk SSSR.

Resp. Ed.: Ye. Z. Gindin; Secretary: O. A. Severnaya.

PURPOSE : This bulletin is intended for scientists and engineers concerned with optical tracking of artificial satellites.

COVERAGE : The bulletin contains 9 articles which present the results of satellite observations, and describe methods and specific equipment used for photographic observation of earth satellites. An appendix contains a listing of 84 Soviet satellite observation stations with station number. No personalities

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Bulletin of the Stations (Cont.) SOV/5575

are mentioned. There are no references.

TABLE OF CONTENTS:

Panova, G. V., T. Ye. Syshchenko, B. A. Firago, and D. Ye. Shchegolev [Glavnaya (Pulkovskaya) Astronomicheskaya observatoriya AN SSSR - Main (Pulkovo) Astronomic Observatory of the Academy of Sciences of the USSR]. Observations of the Second Artificial Earth Satellite (1957 β) at Station No. 039 (Pulkovo) (Observations: B. A. Firago, D. D. Polozhentsev, G. V. Panova, N. M. Bronnikova. Measurements and Calculations: T. Ye. Syshchenko, G. V. Panova, D. Ye. Shchegolev, B. A. Firago, and G. F. Kiseleva) 1

Lemmuer, G. G. [Main (Pulkovo) Astronomic Observatory of the Academy of Sciences of the USSR]. On Methods for Precise Photographic Determinations of the Positions of Artificial Earth Satellites 6

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ation of the NAFA-3a/25 Photographic Camera at Pulkovo 13

Fleys, B. A. [Main (Pulkovo) Astronomic Observatory]. Systematical Errors in the Readings of Hundredths of Seconds of Printing Chronographs (21-II Nos. 001, 011, 045 - 1954; 143, 146, 199 - 1957; 235 - 1958) 15

Romero, G. [Santiago Astronomic Observatory of the University of Chile]. On the Illumination of an Artificial Satellite 16

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a. Urasin, L. A., L. L. Andriyevskaya, L. K. Kolikova, and Kh. Shakiroza [Astronomicheskaya observatoriya im. Engel'gardta, Kazan' - Astronomic Observatory imeni Engel'gardt, Kazan'] 18

b. Kalikhevich, F. F., and T. Ya. Ivakina [Nikolayevskoye otdeleniye GAO AN SSSR - Nikolayevsk Department of the Main Astronomical Observatory of the Academy of Sciences

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TESLENKO, G.I., otv. red.; KHAMRABAYEV, I.Kh., otv. red.;
ENGALYCHEVA, D.Z., red.; SHAKIROVA, M.R., red.

[Study of the geology of the U.S.S.R.] Geologicheskaia izuchennost' SSSR. Tashkent, Nauka, Vol.35. No.1. 1965.
259 p. (MIRA 18:7)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

S/044/63/000/002/020/050
A060/A126

AUTHOR: Shakirova, N.M.

TITLE: Singular case of the solution of computational systems of differential equations

PERIODICAL: Referativnyy zhurnal, Matematika, no. 2, 1963, 44, abstract 2B198 (Tr. Kazakhsk. s.-kh. in-ta, 1961, v. 9, 103 - 107)

TEXT: The author considers the system

$$\frac{dy}{dt} = Y(t, y, x_1, x_2, \ldots),$$

$$\frac{dx_s}{dt} = \sum_{k=1}^{\infty} p_{sk} x_k + X_s(t, y, x_1, x_2, \ldots) \quad (s = 1, 2, \ldots), \qquad (1)$$

where the functions $p_{sk}(t)$, $p_s(t) = \sum_{k=1}^{\infty} |p_{sk}(t)| \leq p(t)$, and $p(t)$ are continuous functions of Y and X_s holomorphic in some domain. It is assumed that system (1) possesses a solution of the form $y = l$, $x_1 = x_2 = \ldots = 0$, where l

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A060/A126

Singular case of the solution of ....

may also be zero. Under the condition of exponential decrease with t of all bounded solutions of the truncated system

$$\frac{dx_s}{dt} = \sum_{k=1}^{\infty} p_{sk} x_k \quad (s = 1, 2, \ldots)$$

it is demonstrated that the trivial solution of system (1) and solutions close to it are uniformly stable. The asymptotic properties of solutions close to the trivial one are established. The norm of the solution, its decay, and uniform stability are meant in the sense of the known works by K.P. Persidskiy, Misprints in text.

I.P. Makarov

[Abstracter's note: Complete translation]

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

PERSIN, S.A., starshiy nauchnyy sotrudnik; YEFIMOVA, L.F., aspirantka; YEREMINA, L.K.; TITOVA, R.P.; SHAKIROVA, R.S.

Simultaneous placement of pesticides and fertilizers. Zashch. rast. ot vred. i bol. 9 no.9:13 '64. (MIRA 17:11)

1. Vsesoyuznyy institut zashchity rasteniy (for Persin). 2. Nachal'nik Kirovskogo otryada po zashchite rasteniy (for Yeremina). 3. Novosibirskaya stantsiya zashchity rasteniy (for Titova). 4. Starshiy agronom TSelinogradskoy stantsii zashchity rasteniy (for Shakirova).

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

[redacted] V. Ye.; SHAKIROVA, R.

"Preparation of molding powders based on lignin-furfurole resins."
Khim. i fiz.-khim. prirod. i sint. polim. no.1:253-256 '62
(MIRA 18:7)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

SHAKIROV, R.; NURIDDINOV, R.N.; YUNUSOV, S.Yu.

Synthesis of "edpetilin." Dokl. AN SSSR 161 no.3:620-621 Mr '65.
(MIRA 18:4)

1. Institut khimii rastitel'nykh veshchestv AN Uzbekskoy SSR.
2. Chlen-korrespondent AN SSSR (for Yunusov).

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

ACCESSION NR: AP4017608 S/0109/64/009/002/0357/0359

AUTHOR: Zubenko, Yu. V.; Shakirova, S. A.; Sokol'skaya, I. L.; Belyakov, Yu. I.

TITLE: Using an omegatron for investigating the composition of gases liberated by some vacuum coatings subjected to an electron bombardment

SOURCE: Radiotekhnika i elektronika, v. 9, no. 2, 1964, 357-359

TOPIC TAGS: mass spectrometer, omegatron mass spectrometer, electron bombardment, vacuum device residual gas, Pt liberated residual gas, tin oxide liberated residual gas, Ag liberated residual gas, aquadag liberated residual gas, willemite liberated residual gas

ABSTRACT: The results of an investigation of residual gases liberated by an electron bombardment of conductive coatings on glass, such as platinum, tin oxide, aquadag, silver paste, and willemite on tin-oxide film, are briefly

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ACCESSION NR: AP4017608

reported. Although a qualitative investigation of gases was the objective, some quantitative results were obtained at pressures exceeding 10^{-7} torr. A most-simply designed omegatron was built, after J. S. Wagener, et al. (J. Appl. Phys., 1957, 28, 9, 1027), with a 15 x 15 x 15-mm resonance chamber. The gases liberated from Pt were: CO, N_2 and CO_2; those liberated from other coatings were: CO, N_2, and to a lesser degree CO_2 and CH_4. The ion currents of principal atomic or molecular ions are tabulated. Orig. art. has: 1 figure and 2 tables.

ASSOCIATION: none

SUBMITTED: 18Jan63 DATE ACQ: 18Mar64 ENCL: 00

SUB CODE: PH, GE NO REF SOV: 001 OTHER: 005

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

ACC NR: AP6018743 SOURCE CODE: UR/0057/66/036/006/1125/1131

AUTHOR: Fursey, G.N.; Shakirova, S.A.

ORG: Leningrad State University im. A.A.Zhdanov (Leningradskiy gosudarstvennyy universitet)

TITLE: On the possibilities of confining field emission within small solid angles

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 6, 1966, 1125-1131

TOPIC TAGS: field emission, tungsten, zirconium, adsorption

ABSTRACT: The authors have investigated field emission from tungsten points having adsorbed mono- or bimolecular layers of zirconium in order to assess the advantages of such tungsten-zirconium points as field emission cathodes for electron optical applications. Zirconium is known to be preferentially adsorbed on the cubic faces of tungsten and to reduce the work function considerably; it was accordingly anticipated that enhanced emission would be obtained from regions of reduced area, with consequent concentration of the field emission current into conical beams of small solid angle. The zirconium was deposited on the tungsten points from a molecular beam, and most of the measurements were performed in a vacuum of 10^{-8} to 10^{-9} mm Hg. The emitting area of a tungsten-zirconium point was found to be much smaller at moderate current than that of a tungsten point, and the limiting current that could be obtained without destroying the point was the same with the adsorbed zirconium as without it. Some 8 to

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ACC NR: AP6018743 4

12 times the current could be obtained within an aperture of 0.01 radian from a tungsten-zirconium field emission cathode as compared with a tungsten cathode without adsorbed zirconium. The angular concentration of the field emission current due to the adsorbed zirconium was even greater at moderate total currents, but at high currents the contrast between the zirconium coated regions and the remainder of the tungsten point decreased. The decrease in the contrast at high currents is ascribed to the inhibiting effect on the field emission of the space charge due to the field emission current. The tungsten-zirconium points were very stable under high vacuum conditions, and when the emission decreased it could be restored by flashing to 1200-1300 ^{o}K for 30 sec. Increasing the pressure to 10^{-6} mm Hg considerably reduced the emission but left the contrast between the different parts of the point unchanged, or even increased it; the emission could be partly restored by heating to 1300-1400 ^{o}K. Increasing the pressure to 10^{-3} mm Hg destroyed the zirconium film. The authors thank Professor B.N.Ostroumov for calling their attention to the problem, V.N.Shrednik for consultation on the technical aspects involved in preparing adsorbed zirconium layers, and student T.T.Popsuyko of the Physics Department for assistance with the work. Orig. art. has: 5 figures.

SUB CODE: 20/ SUBM DATE: 06Jul65/ ORIG.REF: 011/ OTH REF: 006

Card 2/2 MLP

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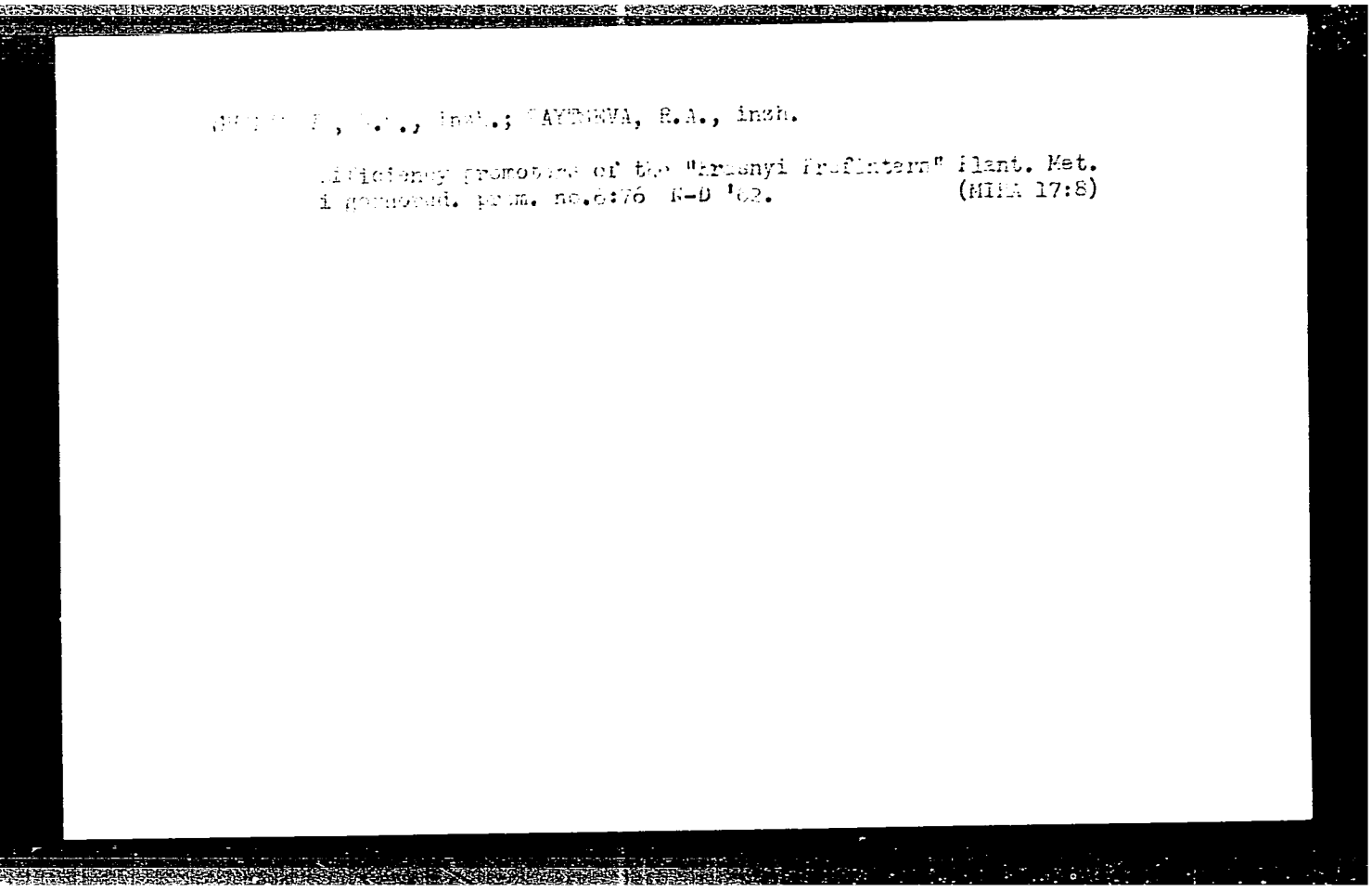

[illegible], [illegible]., inzh.; MAYOROVA, E.A., inzh.

Efficiency promotion at the "Krasnyi Profintern" plant. Met. i gornorud. prom. no.6:76 N-D '62. (MIRA 17:8)

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L 43102-65 EWG(j)/EWG(r)/EWT(l)/FS(v)-3/EWG(v)/EWG(a)-2/EWG(c) Pb-4/Pe-5 DD
ACCESSION NR: AR5008612 S/0299/65/000/004/G008/G009

SOURCE: Ref. zh. Biologiya. Svodnyy tom, Abs. 4G60

AUTHOR: Shakirova, S. V.

TITLE: A study of the intensity of potential photosynthesis of some varieties of barley under the conditions of the Eastern and Western Pamirs

CITED SOURCE: Izv. AN TadzhSSR. Otd. biol. n., no. 1(15), 1964, 52-57

TOPIC TAGS: photosynthesis, barley, high altitude farming, Pamir mountain, climatic adaptation, barley maturation

TRANSLATION: The author studied varieties of barley having different origins at the Pamirskaya biologicheskaya stantsiya (Pamir Biological Station) (altitude of 2310 m above sea level): Pallidum 04 (the first and seventh generations), Pallidum 17067 (primary seed from Yakutia), Yevropeum 353/133, and Trifurkatum 18528 (primary seed from China). The intensity of photosynthesis was evaluated by a radiometric method every 2 hours from 9:00 a.m. to 5:00 p.m. with the CO_2 concentration in the room varying from 1 to 0.3%.

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ACCESSION NR: AR5008612

In the varieties of barley studied, there was a sharp increase in the rate of photosynthesis with height in the shooting stage, but a decrease in the stage of milky ripeness. The curve of the diurnal changes in the intensity of photosynthesis was identical at heights of 2310 and 3660 m, with maxima at 9:00 a.m. and 3:00 p.m. The seasonal curve of photosynthetic intensity also shows two maxima: in the tillering phase and during heading. Pallidum 04 barley of the seventh generation was found to be the best adapted to the bleak climate of the Eastern Pamirs. Ye. Yurina

SUB CODE: LS ENCL: 00

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

SHAKIROVA, V.P.

Results of radiotherapy in cancer of the esophagus. Trudy Inst. klin. i eksp. khir. AN Kazakh. SSR 8:99-102 '62. (MIRA 17:7)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

1. SHAKIR'YANOV, S. Sh.

2. USSR (600)

4. Plant Breeding

7. 20 years at the Kamalinskaya State Selection Station, Sel.i sem. 10 No. 11, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

SHAKIR-ZADE,A.S.

On the law of essential conformity of the relations of production to the character of productive forces. Izv.AN Azerb.SSR no.7:85-102 Jl'54. (MLRA 8:10)

(Economics)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

PETROV, A., general-mayor inzh.voysk; SHAKIRZANOV, R., mayor

Drilling wells for water and the necessary equipment. Voen.-inzh. zhur. 102 no.5:33-38 My '58. (MIRA 11:6)
(Wells)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

SHAKIRZYANOV, A. (Khorezmskaya oblast')

A simple shortwave signal generator. Radio no.9:19 S '62. (MIRA 15:9)

(Oscillators, Transistor)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

SHAKIRZYANOVA, Daima

Million specialists should be trained in one year. Za rul. 20 no.7:6 Jl '62. (MIRA 15:7)

1. Zamestitel' predsedatelya Soveta Ministrov Tatarskoy ASSR. (Education, Military)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

SHAKIRZYANOVA, M.S.

Taxonomy of the moth flies of Kazakhstan. Trudy Inst.zool. AN Kazakh. SSR 1:102-107 '53. (MLRA 10:1)

(Kazakhstan--Moth flies)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

SHAKIRZYANOVA, M.S.

Materials on midges of the Dzungarian Ala-Tau. Paraz. sbor. 17:196-198 '57. (MIRA 11:3)

1. Institut zoologii AN Kazakhskoy SSR.
(Dzungarian Ala-Tau--Diptera)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

USSR/Zooparasitology - Ticks and Insects Vectors of Disease Agents. G

Abs Jour : Ref Zhur Biol., No 1, 1959, 1044

Author : Shakirzyanova, M.S.

Inst : Institute of Zoology; AS Kazakh SSR

Title : Data on Fauna of Blood-Sucking Diptera in Northern Areas of the Caspian

Orig Pub : Tr. In-ta zool. AN KazSSR, 1958, 8, 197-204

Abstract : In northern areas around the Caspian 39 species of blood-sucking diptera were reported, and among that number were 25 species of horseflies, 1 gnat species, 12 of mosquitoes and 1 midge. Phlebotomus flies were not observed. Horseflies, which were of the greatest significance, could be divided into two ecological groups: bottom land and desert-steppe. In the bottom land fauna of horseflies there predominated Tabanus bovinus,

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USSR/Zooparasitology - Ticks and Insects Vectors of Disease Agents. G

Abs Jour : Ref Zhur Biol., No 1, 1959, 1044

T. autumnalis, T. bromius, and Chrysozona hispanica; in the desert-steppe the most numerous were T. nigrivitta, T. peculiaris, T. erberi, T. flavoguttatus. Among the mosquitoes were 2 strains of the genus Anopheles (A. maculipennis and A. hyrcanus). The gnat (Eusimulium maculatum) infested the bottom lands of the Ural river, chiefly in its afforested section. Among the natural enemies of horseflies the wasp of the Bembes genus and the sand martin have the most substantial significance. -- I.L. Rybtsov

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

SHAKIRZYANOVA, M.S.

Materials on the midges of Kazakhstan. Trudy Inst. zool. AN Kazakh. SSR 9:167-175 '58. (MIRA 11:7)
(Kazakhstan--Diptera)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

SHAKIRZYANOVA, M. S.

"On the Sandflies of Kazakhstan."

Tenth Conference on Parasitological Problems and Diseases with Natural Reservoirs, 22-29 October 1959, Vol. II, Publishing House of Academy of Sciences, USSR, Moscow-Leningrad, 1959.

Institute of Zoology, Academy of Sciences of the Kazakh SSR (Alma-Ata)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

ABASOV, Kh.A.; SHAKIRZYANOVA, M.S.

Material on the horseflies of the Dzungarian Ala-Tau. Trudy Inst. zool.AN Kazakh. SSR 11:173-179 '60. (MIRA 13:11)
(Dzungarian Ala-Tau--Horseflies)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

SHAKIRZYANOVA, M.S.

Materials on bloodsucking Diptera of some districts of eastern Kazakhstan. Trudy Inst. zool. AN Kazakh. SSR 18:235-240 '62.

New species of punkies (Diptera, Heleidae) from Kazakhstan. 254-259
(MIRA 17:3)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

SHAKIRZYANOVA, Maksuma Sabirovna; GUTSEVICH, A.V., doktor biol. nauk, otv. red.; RZHONDKOVSKAYA, L.S., red.; KHUDYAKOV, A.G., tekhn. red.

[Biting midges of Kazakhstan (Diptera, Heleidae)] Krovososushchie mokretsy Kazakhstana (Diptera, Heleidae). Alma-Ata, Izd-vo AN Kaz.SSR, 1963. 120 p. (MIRA 16:9)
(Kazakhstan--Biting midges)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

MAKAROVA, G.A.; SHAKIRZYANOVA, R.M. (Kazan')

All-Russian Congress of Pediatricians. Kaz. med. zhur. 41 no.3: 93-95 My-Je '60. (MIRA 13:9)
(PEDIATRICIANS--CONGRESSES)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

SHAKIRZYANOVA, R.M.

Differential diagnosis between chronic tonsillogenic intoxication and latent rheumatic fever in children according to the level of sialic acid in the blood serum. Kaz.med.zhur. no.5:40-41 S-O '62. (MIRA 16:4)

1. Kafedra propedevtiki detskikh bolezney (zav. - prof. G.A. Makarova) Kazanskogo meditsinskogo instituta i 4-y detskoy bol'nitsy (glavnyy vrach - R.Kh.Savenkova).

(TONSILS--DISEASES) (RHEUMATIC FEVER) (NEURAMINIC ACID)

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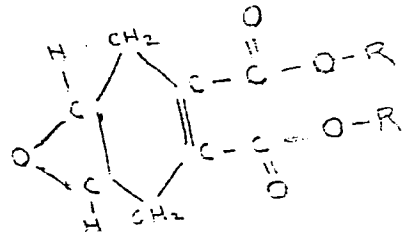
S/153/62/005/002/004/004
E112/E453

AUTHORS: Vozkresenskiy, V.A., Shakirzyanova, S.S., Byl'yev, V.A.

TITLE: Factors affecting the plastification of polyvinyl chloride with the epoxides of the tetrahydrophthalates

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, v.5, no.2, 1962, 322-325

TEXT: Polyvinyl chloride was plasticized in the presence of calcium stearate under conditions of constant weight ratios, and also in molar proportions, with the esters of epoxy-tetrahydro-phthalic acid of the general formula



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Factors affecting the ...

where R = methyl, ethyl, propyl, butyl, isobutyl, isoamyl, octyl, nonyl and decyl. The following physico-chemical constants of the plasticized compositions were determined: 1) relative elongation; 2) hardness (according to Jones); 3) resistance to degradation; 4) physico-chemical constants were correlated with the structural characteristics of R (chain length, molecular size and configuration). Thus, the relative elongation increased from 185.5 to 270% when methyl was replaced by decyl, and when both the plasticizers were used in identical quantities. When both plasticizers were compared in molecular proportion, the increase in relative elongation amounted to 410% from 260%, respectively. It is concluded that the physico-chemical properties of the plasticized compositions is affected equally by the quantities of plasticizer used as by their chemical characteristics and the effects are similar to those described by the authors previously for the unsubstituted phthalates. The following esters of the epoxidized tetrahydrophthalic acid were found of special interest as plasticizers: Plasticizer no.1 - dibenzyl and no.2 - ethylenechlorhydrine. Their characteristics, such as

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B102/B104

24.6714

AUTHOR: Shakhidzhanov, S. S.

TITLE: Phase conditions in systems of accumulation of the high current of accelerated particles

PERIODICAL: Atomnaya energiya, v. 12, no. 6, 1962, 483-487

TEXT: The stability of phase oscillations is studied theoretically, stability conditions are derived, and it is shown that with a sufficiently high current the phase oscillations of a plasma cluster become unstable. The oscillations of a plasma cluster are oscillations of its electric center of mass. The main problem is the determination of the reaction of the plasma cluster to the accelerating resonator in the case of high currents. The phase oscillations in the cluster lead to voltage oscillations at the resonator which, in turn, render the plasma unstable (I. Henry, J. Appl. Phys. 31, 8 (1960)). The author considers a "hard" plasma cluster. The radiative losses and the harmonic by which the cluster is produced and which has the same frequency as the h-f generator, are assumed constant. This is the case if the length l of the cluster

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satisfies the condition $l_{max} < \lambda/4$ (λ = wavelength of the h-f generator). The coherent radiation depending on λ can be ignored. The average power released by the cluster is given by $\overline{P} = \frac{1}{2}\mathrm{Re}(\Delta I_1 U + \Delta U I_1)$; $\overline{P} = dW/dt$ minus the radiative losses. U designates the equilibrium amplitude of the voltage at the resonator, $|I_1|$ is the first harmonic produced by the cluster; $|\Delta I_1| = \psi|I_1|$, ψ is the phase. The second term in the equation for $\overline{P}$ is a square function of $|I_1|$. The two terms become comparable as $|I_1|$ increases. $p = |I_1|R/|U|\sin\psi_{eq}$ is the characteristic parameter; R is the shunt resistance of the resonator. If $p \ll 1$, the second term is always negligible (low-current phase condition), but it cannot be ignored if $p \gtrsim 1$ (high-current phase condition). In addition, aperiodic phase oscillations of the type $\psi = \psi_0 \exp(\delta t)$ are considered. Here, the first harmonic is given by $|I_1|\exp(-i\omega_0 t)$, and

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$$\overline{P} = \frac{|I_1|}{2}\left[|U|\sin\gamma_{eq} - \left[\bar{I}_1 I_M z(6,\omega_0)\right]\right]\gamma_0 \exp(\delta t).$$

If only the first harmonic is considered, the criterion of stability is given by

$$|\bar{I}_1| < I_1^{crit} = \frac{|U|\sin\gamma_{eq}}{F}\,\frac{1+\eta^2}{\eta}$$ and $P > P_{crit} = (1+\eta^2)/\eta$;

$\gamma = 2(\omega_0 - \omega_{eq})Q/\omega_0$, where Q is the [illegible] factor of the [illegible]. The condition for I_1^{crit} is general. The oscillation solution of the form $\gamma_0 \cos\Omega t \exp(\delta t)$ for the phase equation $\frac{d^2\gamma}{dt^2} + \frac{1}{1-\eta}\frac{\omega}{w}\overline{P} = 0$ are studied, and the influence of the multiplicity of high frequencies is discussed. There are 2 figures.

SUBMITTED: October 16, 1961
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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548410010-7

S/069/62/024/005/002/010
B107/B186

AUTHORS: Voskresenskiy, V. A., Shakirzyanova, S. S.

TITLE: Changes in the mechanical strength of plasticized polyvinyl chloride in low-molecular liquids.

PERIODICAL: Kolloidnyy zhurnal, v. 24, no. 5, 1962, 533 - 536

TEXT: A material composed of 100 parts by weight of polyvinyl chloride (resin ПВХ-4 (PF-4)) with 64 parts of dibutyl phthalate and 3 of calcium stearate was investigated. Samples of the plasticized materials were placed in desiccators which contained the following liquids: HNO_3 ($d = 1.43$ g/cm^3), 2N H_2SO_4, 2N CH_3COOH, 30% H_2O_2, benzene, gasoline, distilled water. The desiccators were kept at room temperature and every 5 days samples were taken from them to determine the following values: tensile strength σ in kp/cm^2, relative elongation Δl in %, hardness H_B in kp/cm^2, change in weight %. The results are collected in the illustration. It will be seen from this that change of these values with

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